

## ABSTRACT

2 A method and apparatus are disclosed for improving the disturbance pass through  
3 characteristics of a line interactive uninterruptible power supply (“UPS”). One disclosed  
4 technique uses a naturally commutated fast utility disconnect switch, wherein the switch  
5 is self commutated by the UPS inverter forcing the current through the switch to zero. A  
6 second disclosed technique uses a gate commutated fast utility disconnect switch and the  
7 associated snubber circuits, wherein the fast utility disconnect is opened quickly upon  
8 occurrence of a line fault and the energy generated in interrupting the line current is  
9 dissipated by the snubber circuits.

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